

Message Text

CONFIDENTIAL

PAGE 01 OECD P 28558 291758Z

13

ACTION EB-07

INFO OCT-01 ISO-00 EUR-12 DODE-00 NRC-05 NSAE-00 USIA-06

TRSE-00 ERDA-05 CIAE-00 COME-00 /036 W

----- 052933

R 291746Z SEP 76

FM USMISSION OECD PARIS

TO SECSTATE WASH DC 3569

C O N F I D E N T I A L OECD PARIS 28558

EXCON

E.O. 11652: XGDS1

TAGS: ESTC, COCOM, JA, UR

SUBJECT: JAPANESE CONSUMABLE ELECTRODE VACUUM ARC
FURNACE TO USSR--IL 1203

REF: (A) COCOM DOC (76) 621, (B) STATE 203430, (C)

COCOM DOC (76) 1499

1. JAPANESE DEL REQUESTS IN REFDOC C THAT US RECONSIDER
OBJECTION REFCASE. REFDOC C STATES THAT MELTING CAPA-
CITY OF FURNACE WHEN SUPER-ALLOYS INVOLVED IS LIMITED
TO 5 TONS BY CAPACITY OF VACUUM INDUCTION MELTING FUR-
NACE AND BY SEGREGATION PROBLEM, (FLECKER) ARISING
IN A VACUUM ARC MELTING FURNACE OF 10 TONS OR MORE
(INGOT DIAMETER 88 MM OR MORE) THUS MAKING IT IMPOS-
SIBLE TO OBTAIN BEST QUALITY INGOT. SEGREGATION-FREE
INGOT CAN ONLY BE PRODUCED FOR QUANTITIES UP TO 5 TONS
(INGOT DIAMETER 650 MM).

2. IN VACUUM ARC MELTING FURNACE PUMPING RESISTANCE
IS LARGE BECAUSE THE SPACE BETWEEN ELECTRODE AND MOLD
WALL IS SMALL. THE PRESSURE IN THE MELTING ZONE
IS KEPT TO AROUND 1-5 TORV AND CANNOT BE IMPROVED NO
MATTER HOW LARGE A PUMPING SYSTEM MAY BE USED. THE
DEGASSING EFFECT IS THEREFORE LIMITED. FOR THIS
REASON THE PROPOSED FURNACE IS EQUIPPED WITH AN
CONFIDENTIAL

CONFIDENTIAL

PAGE 02 OECD P 28558 291758Z

ORDINARY PUMPING SYSTEM COMPRISING MECHANICAL BOOSTER

AND ROTARY PUMPS.

3. CONSIDERING THESE LIMITATIONS, JAPANESE DEL MAIN-
TAINS THAT THIS FURNACE WOULD NOT BE USED FOR SUPER-
ALLOY MELTING PURPOSES.

4. ACTION REQUESTED: FURTHER INSTRUCTIONS ON REFCASE
AS APPROPRIATE.

KATZ

CONFIDENTIAL

NNN

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: STRATEGIC TRADE CONTROLS, EXCEPTIONS LIST, EXPORT LICENSES, FURNACES
Control Number: n/a
Copy: SINGLE
Draft Date: 29 SEP 1976
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: BoyleJA
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1976OECDP28558
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: X1
Errors: N/A
Film Number: D760369-0662
From: OECD PARIS
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1976/newtext/t1976097/aaaaafzd.tel
Line Count: 70
Locator: TEXT ON-LINE, ON MICROFILM
Office: ACTION EB
Original Classification: CONFIDENTIAL
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 2
Previous Channel Indicators: n/a
Previous Classification: CONFIDENTIAL
Previous Handling Restrictions: n/a
Reference: 76 STATE 203430
Review Action: RELEASED, APPROVED
Review Authority: BoyleJA
Review Comment: n/a
Review Content Flags:
Review Date: 27 APR 2004
Review Event:
Review Exemptions: n/a
Review History: RELEASED <27 APR 2004 by CollinP0>; APPROVED <11 AUG 2004 by BoyleJA>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
04 MAY 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: JAPANESE CONSUMABLE ELECTRODE VACUUM ARC FURNACE TO USSR--IL 1203
TAGS: ESTC, JA, UR, COCOM
To: STATE
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 04 MAY 2006